

STERNMED[®]



Lumax 25

Surgical LED light



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The Lumax 25 is a dual dome surgical LED light system providing superior performance to satisfy the ever-growing user needs in diverse surgical fields, including general surgery, micro surgery, E.N.T., OB/Gyn., orthopedic and cosmetic surgery.

This device is also available in single dome version as Lumax 15.

FEATURES OF LUMAX 5

Optical Efficiency

The light spectrum focus on the visible frequencies, the efficiency can reach 80% -90%.

Hollowing Design

Unique hollowing design, clean air can reach the surgical field directly, fulfill the purification effect of laminar flow.

Low temperature

Almost no infrared and ultraviolet spectra, low temperature in surgical field after long-lasting operation.

Streamlining Surfaces

Follow the „teardrop“ shape from the international wind resistance standards, LUMAX 25 is highly expressive with integrated aesthetic and technological factors effectively, to reduce turbulence and resistance of the light.



Beam Shaper Technology

Independent Condenser Combination for each LED bulb, to control the LED light precisely, eliminate glare while ensuring maximum output by the double reflection system.

Adjustable facula size and optical Focal length

Adjustable focus handle controls projection angle of LED light, and adjusts facula size and optical Focal length easily.

No Environmental Pollution

The light is stimulated by light-emitting diode, heavy metals free, without pollution to environment.

Suspension System

Universal 6-joint spring suspension system with full and accurate positioning without drifting.

Bulb

Average life span is up to 50,000 hours or more. Comparing to disk-shaped design of the traditional lamp, the triangular shape reduces hindering area by 30%, improve the purification effectively.

Light intensity

Great optical performance, the luminance ranges from 130,000~160,000 Lx easily.

Circuit

Long-life and stability circuit supports multi-level dimming

Camera System

For convenience of different customers, there are 3 choices of high sensitive and definition and interference-resistant digital camera systems: built-in, arm-mounted and wall-mounted.



TECHNICAL SPECIFICATIONS

Lumax 25 and 15 | SternMed Surgical LED light

	LUMAX 25	LUMAX 15
Optical and photometric	Lumax 25	Lumax 15
Technology	LED	LED
Diameter of light head (cm)	80	80
Illumination (lx)	(130,000~160,000)x2	130,000~160,000
Light Field diameter* (mm)	$D_{10} \geq 160$; $D_{50} \geq 50\% \times D_{10}$	$D_{10} \geq 160$; $D_{50} \geq 50\% \times D_{10}$
Light field depth L1+L2 (mm)	≥ 960	≥ 960
Color rendering index (CRI)(Ra)	95 \pm 5	95 \pm 5
Color temperature (K)	4300 \pm 500 (5100K on request)	4300 \pm 500 (5100K on request)
Radiant energy (mW/m ² .lx)	≤ 6	≤ 6
ELECTRICAL AND MECHANICAL		
Power supply input voltage (V)	100-120/200-230	100-120/200-230
Light head power consumption	150x2	150
Frequency (Hz)	50/60	50/60
Rated current(A)	0.68x2	0.68
LED power(W)	1	1
LED voltage(V)	vf: DC 3.2	vf: DC 3.2
Service life (hrs)	50,000	50,000
Standard Installation height* (mm)	2900~3100	2900~3100
Carrying capacity for OR ceilings Kg)	≥ 500	≥ 500
Weight (kg)	100	57
CAMERA SYSTEM (OPTIONAL)		
CCD sensor	1/4" Interline Transfer Super HAD CCD	1/4" Interline Transfer Super HAD CCD
Scan system	PAL, 625 lines, 25 frames/sec	PAL, 625 lines, 25 frames/sec
Effective Pixels	752(H)x582(V)	752(H)x582 (V)
Horizontal resolution	480	480
Aspect Ratio	4:3	4:3
S/N Ratio (dB)	>52	>52
Lens	22xoptical zoom lens, 10xdigital zoom	22xoptical zoom lens, 10xdigital zoom
Lens control	Independent control system	Independent control system
Focal length (mm)	f=3.6 to 79.2	f=3.6 to 79.2
Focus	Automatic, manual	Automatic, manual
Aperture	Automatic, manual	Automatic, manual
Shutter	Automatic, fixed	Automatic, fixed
White balance	Automatic, manual	Automatic, manual
Minimum luminance	0.01Lux	0.01Lux
Video output	VBS 1.0Vp-p, 75	VBS1.0Vp-p, 75
Picture in picture function	Yes	Yes
Backlight Compensation	On/Off	On/Off
Location of camera	Center of the light head/separate arm	Center of the light head/separate arm
Camera operation	At the surgical light/ mobile control unit	At the surgical light/ mobile control unit
Serial link interface	RS485	RS485
Power consumption (VA)	5	5

